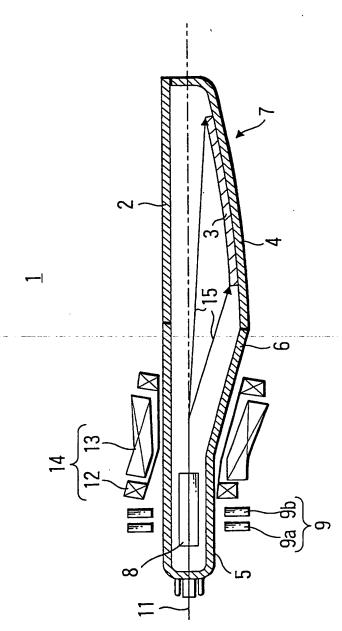
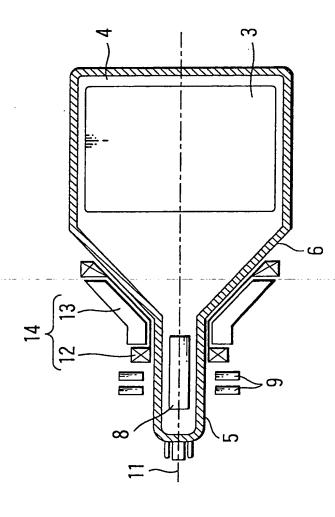


F/G. 1 (PRIOR ART)



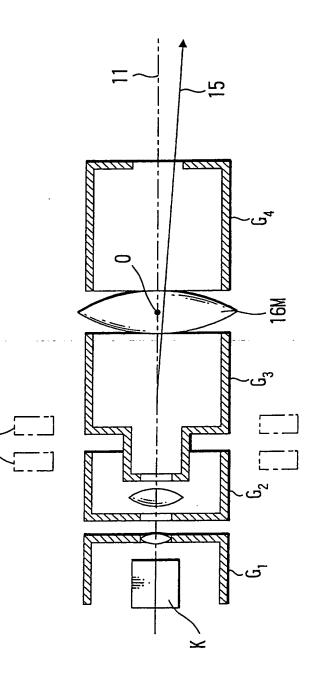


F/G. 2 (PRIOR ART)



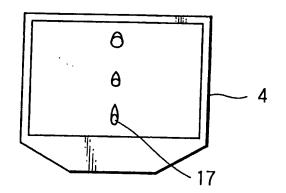


F16. 3 (PRIOR ART)

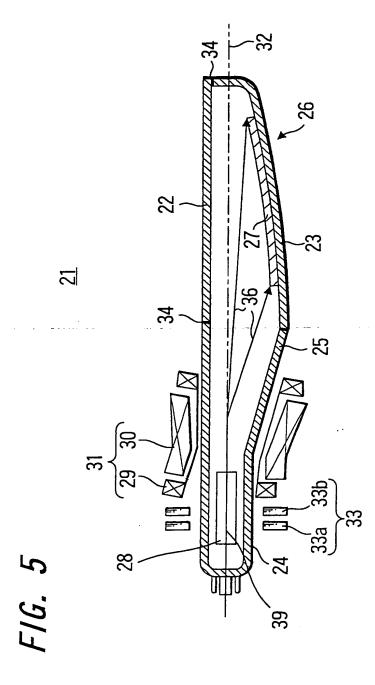


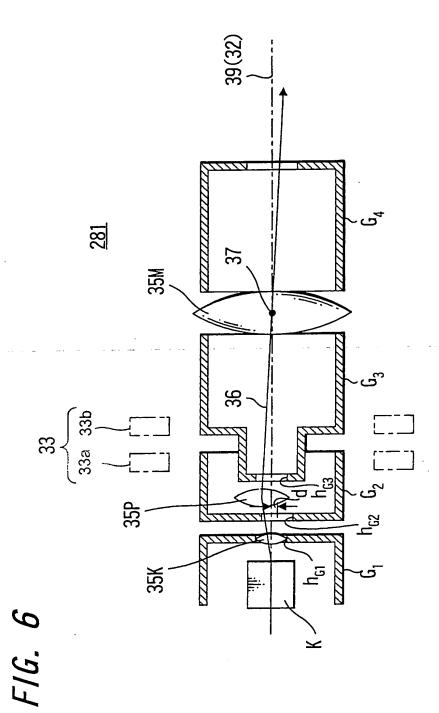


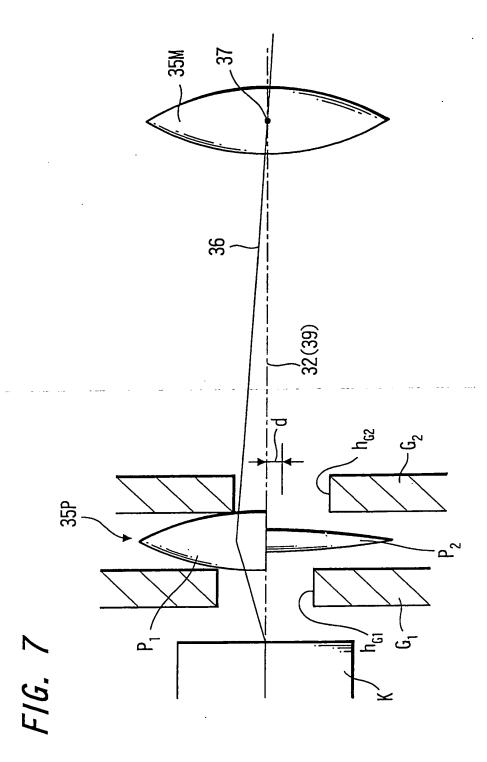
F/G. 4 (PRIOR ART)



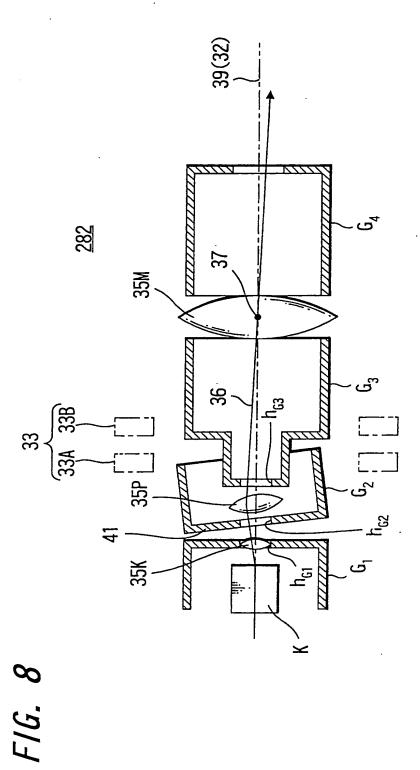




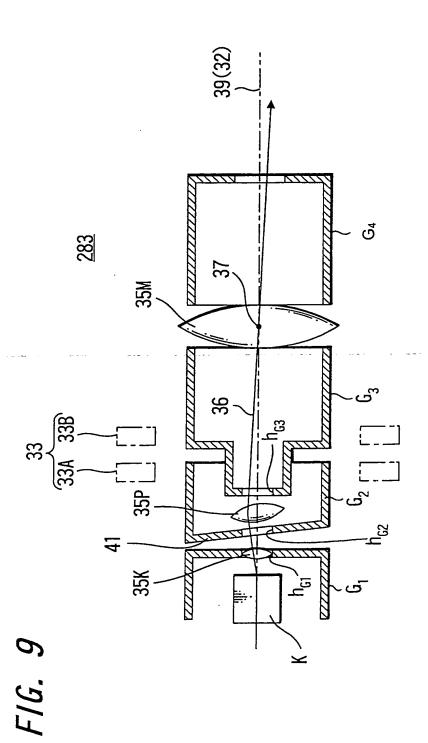




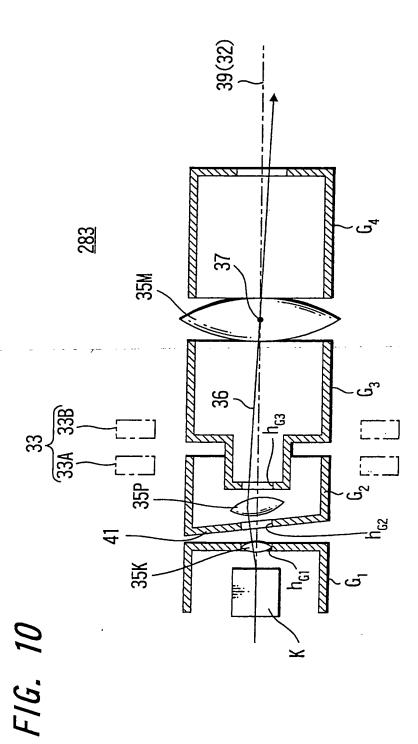




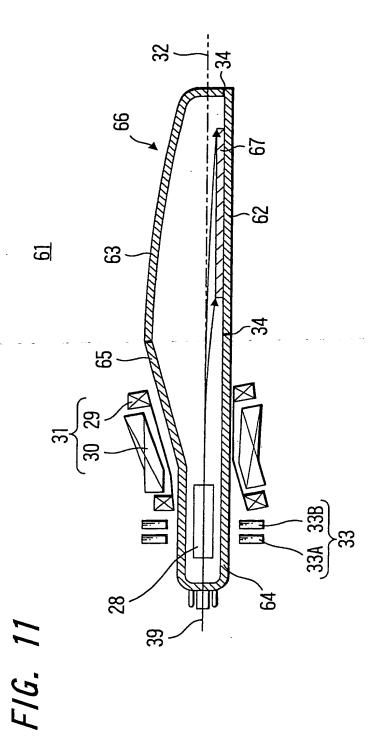




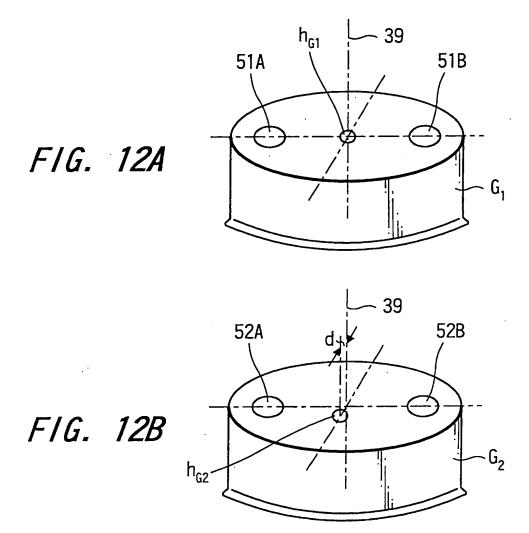






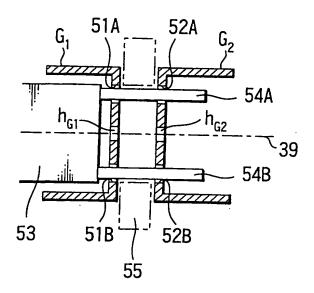




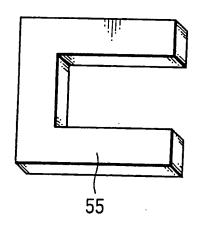




F/G. 13



F/G. 14

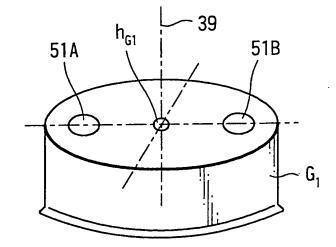


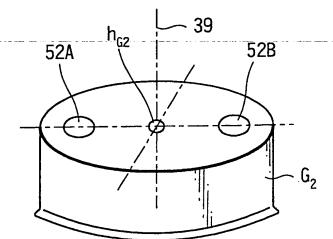


33 **54A 54B** 281 F16. 15



F/G. 16A

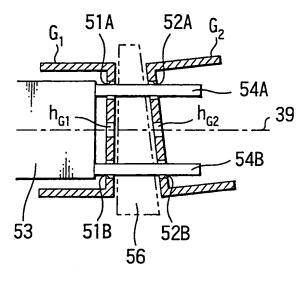




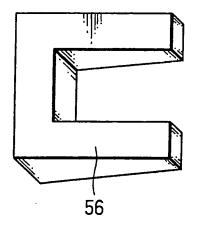
F/G. 16B



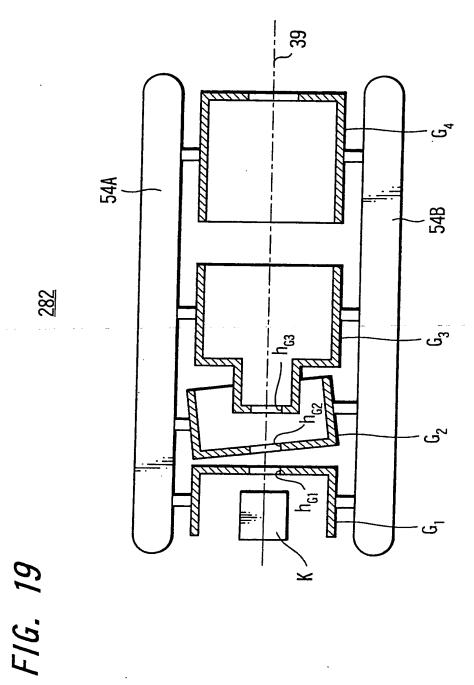
F/G. 17



F/G. 18

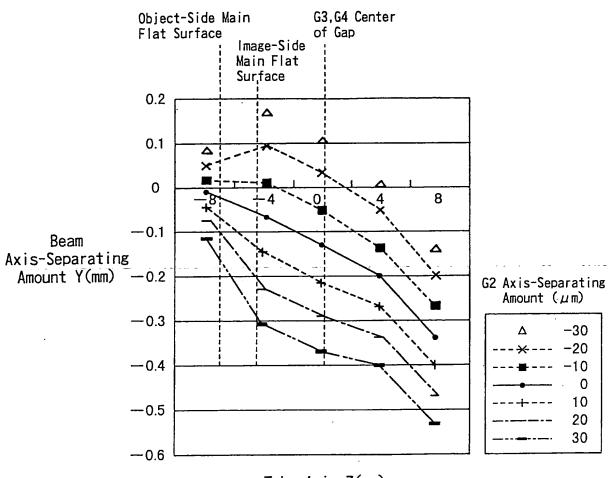








## FIG. 20



Tube Axis Z(mm)

OT 2 0 2003 W

G2 Axis-Separating Amount VS SP Moving Amount (Including Effect of Magnetic Field of Centering Magnet)

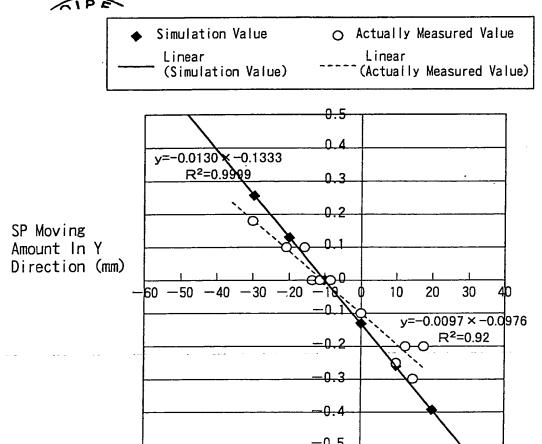
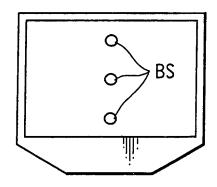
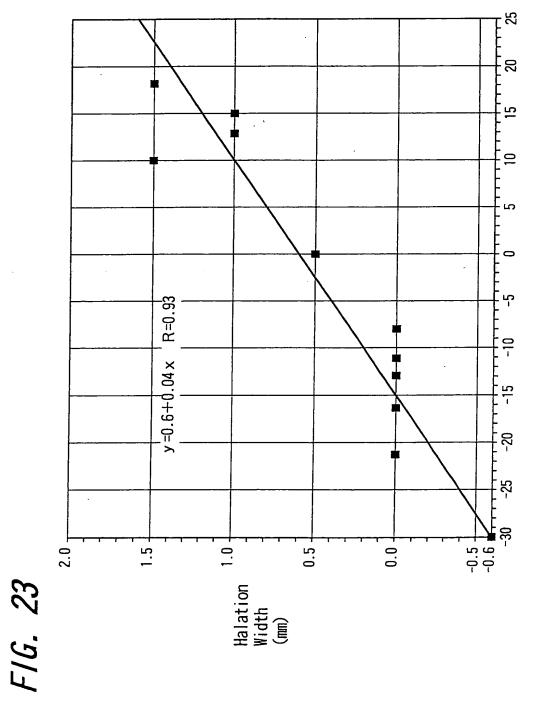


FIG. 22



Axis-Separation In G2Y Direction ( $\mu$ m)

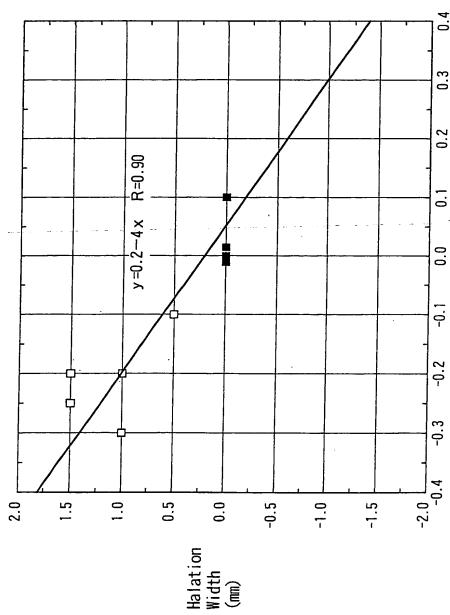




G2 Hole Axis-Separating Amount ( $\mu$ m)



F16. 24



□ G2 Hole Position +15 $\mu$ m = G2 Hole Position -15 $\mu$ m

Spot Moving Amount (mm)



